

DERWENT-ACC-NO: 1987-328014  
DERWENT-WEEK: 198747  
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TITLE: Solvent extn. of mineral oils, e.g. for lubricating  
oil prodn. - with  
solvent recovery from raffinate phase by anti-solvent addn.  
and steam  
stripping, so avoiding capital and energy cost of solvent  
distrn.

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
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APPLICATION-DATA:

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INT-CL (IPC): C10G021/28

ABSTRACTED-PUB-NO: DD 247464A

BASIC-ABSTRACT: Mineral oil refining process, comprising  
extn. with a solvent,  
removal of solns. of raffinate and extract from the extn.  
stage and removal of  
solvent from these solns., is characterised in that the  
solvent is removed from  
the raffinate soln. by: (i) thoroughly mixing the soln.  
with the antisolvent or  
antisolvent mixt. which had been used in the extn. stage;  
(ii) allowing to  
separate by settling into a raffinate phase and an  
antisolvent phase; (iii)  
sending the antisolvent phase to the extn. stage or adding

ir to the extract  
soln.; and (iv) conventionally heating the raffinate phase  
and removing  
residual solvent from it with stripping steam.

USE/ADVANTAGE - The process is useful for aromatics  
removal, by extn. with  
phenol, furfural, N-methyl formamide etc., during  
lubrication oil prodn..  
Solvent is removed from the raffinate phase without the  
usual solvent  
vaporisation, with its associated investment costs (for a  
tubular heater, flash  
column etc.) and energy costs.

CHOSEN-DRAWING: Dwg.0/1

TITLE-TERMS:

SOLVENT EXTRACT MINERAL OIL LUBRICATE OIL PRODUCE SOLVENT  
RECOVER RAFFINATE  
PHASE ANTI SOLVENT ADD STEAM STRIP SO AVOID CAPITAL ENERGY  
COST SOLVENT DISTIL

DERWENT-CLASS: H02 H07

CPI-CODES: H02-C01;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1987-139931